

CLAIMS

1. Tie comprising:

- 5 to 50% by weight of a blend (A), the said blend (A) comprising:

- 5 to 100% of a blend of polymers (C1) and (C2), consisting of 90 to 20% by weight of a metallocene polyethylene (C1) of density between 0.865 and 0.915 and of 10 to 80% by weight of a polymer (C2) which is either a non-metallocene LLDPE or a polypropylene homopolymer or copolymer, the blend of polymers (C1) and (C2) being grafted by an unsaturated carboxylic acid or a functional derivative of this acid as grafting monomer,

- 95 to 0% by weight of a polyethylene (D) chosen from polyethylene homopolymers or copolymers and elastomers;

the blend (A) being such that:

- the content of grafting monomer grafted is between 30 and 10^5 ppm;
- the MFI or meltflow index (ASTM D 1238, at 190°C/2.16 kg) is between 0.1 and 30 g/10 min;

- 50 to 95% by weight of a polypropylene homopolymer or copolymer (B).

2. Multilayer structure comprising a layer (2) of the tie according to Claim 1.

3. Multilayer structure according to Claim 2, characterized in that it comprises a metal layer (1) bonded to the tie layer (2).

4. Structure according to Claim 3, characterized in that the metal layer is a layer of Al, Fe, Cu, Sn, Ni, Ag, Cr or Au or an alloy containing predominantly at least one of these metals.

5. Multilayer structure according to Claim 4, characterized in that it comprises a polypropylene homopolymer or copolymer layer (3), the tie layer (2) being sandwiched between the metal layer (1) and the said polypropylene layer (3).

6. Multilayer structure according to Claim 5, characterized in that it comprises a layer (4) such that the polypropylene layer (3) is sandwiched between the tie layer (2) and the said layer (4), the latter layer being suitable for heat-sealing and comprising either an ethylene/propylene/butylene terpolymer, or an

ethylene/propylene copolymer, or a metallocene PE or blends thereof, and in this case the said blend comprises at least two of the abovementioned compounds.

7. Film comprising a multilayer structure according to one of Claims 2 to 6.

8. Film characterized in that it comprises a printed biaxially oriented polypropylene (BOPP) or biaxially oriented polyethylene terephthalate (BOPET) layer to which a metallized multilayer film having a structure according to one of Claims 3 to 6 is applied by means of an adhesive, the said film being biaxially oriented or not and the metal layer of the said metallized multilayer film being directly bonded by the adhesive to the printed BOPP or BOPET layer.

9. Use of the tie according to Claim 1 to manufacture a multilayer structure according to one of Claims 2 to 6.

10. Article having a multilayer structure according to one of Claims 2 to 6.

11. Article manufactured using a film according to either of Claims 7 and 8.

12. Article according to Claim 11, characterized in that this article is a package.